



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

 OPP OFFICIAL RECORD  
 HEALTH EFFECTS DIVISION  
 SCIENTIFIC DATA REVIEWS  
 EPA SERIES 361

MAY 28 1982

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCESMEMORANDUM

SUBJECT: PP#2G2619/2H5330. Ethephon on wheat and barley.  
Amendment of 4/19/82

FROM: William L. Anthony, Chemist  
Residue Chemistry Branch  
Hazard Evaluation Division (TS-769)

THRU: Charles L. Trichilo, Chief  
Residue Chemistry Branch  
Hazard Evaluation Division (TS-769)

TO: Robert Taylor/Dan Dixon, Product Managers  
Herbicide-Fungicide Branch  
Registration Division (TS-767)

*William L. Anthony*

*CT*

This amendment is in response to deficiencies stated in our review of 4/20/82.

In our review we concluded that a favorable recommendation could be given, toxicological considerations permitting, if (1) Section F were amended to propose the following temporary tolerances:

Raw Agricultural CommoditiesTolerances

Grain: Wheat and Barley  
Straw: Wheat and Barley

2.0 ppm  
10.0 ppm

Processed CommoditiesFood/feed Additive Tolerance

Wheat and Barley  
Milled fractions (except flour)

5.0 ppm

and (2) Section B were amended to include a label restriction "against grazing and feeding forage to livestock".

For this anti-lodging use, the Company will use the name CERONE® for its product. The Company states that the trade name CERONE® was adopted for "marketing purposes" and the product is identical to their formulation ETHREL® as identified in PP2G12619/2H5330.

A revised Section F has been submitted. Therefore TOX considerations permitting, we recommend that the proposed temporary tolerances for residues of the plant regulator ethephon [(2-chloroethylphosphonic acid)] in/on the commodities wheat and barley grain at 2.0 ppm; wheat and barley straw at 10 ppm; and food/feed additive tolerances for milling fractions of wheat and barley at 5.0 ppm be established. This recommendation is contingent on insertion of the phrase, "except their flours" following "... milling fractions of wheat and barley" and the amending of Section B to include label restriction against grazing and feeding forage to livestock. For a permanent tolerance on wheat and barley or any other crop involving ~~an~~ an animal feed item, we will require (1) a tomato processing study in which puree, paste, ketchup and dry pomace derived from field treated tomatoes bearing aged residues of ethephon at or near the established tolerance and (2) an additional cattle feeding study conducted at higher ingestion levels in order to make a final conclusion concerning secondary residues in meat and milk. (The cattle feeding study dated 4/6/82 may be sufficient for a permanent tolerance; however, it has not yet been reviewed).

The petitioner should also be advised that if use on cereal grains other than wheat and barley is intended for a permanent tolerance, tolerance proposals for each grain, their straws, and their milled fractions, along with data for each commodity should be submitted.

cc: R.F.  
Circu  
Reviewer  
FDA  
PP# No. 2G2619/2H5330  
EEB  
TOX  
EFB  
Robert E. Thompson (Res. Triangle Park, N.C.)

RDI:Section Head:RJH>Date:5/14/82:RDS>Date:5/14/82  
TS-769:RCB:Reviewer:WLANthony:LDT:X77324:CM:#2:RM:810>Date:5/26/82



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**HED Records Reference Center**  
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